

7 – Chief engineer officer. Section A-III/2

Study Matrix for the Engineer Officer Certificate of Competency as per the South African Maritime Qualifications Code.

SAMSA - CODE Subject	N Course Subject	S Course Subject
General Engineering Science/ Applied Mechanics Module 1 to 3	N4 Engineering Science ✓ N4 Mechanotechnics ✓ N5 Mechanotechnics N6 N5 Strength of Materials and Structures ✓ N5 Fluid Mechanics ✓ N6	Fluid Mechanics 2 ✓ Mechanics 1 ✓ Mechanics of Machines 3 Strength of Materials 3 Fluid Mechanics 2 (circled) Control systems 2.
Electronics		Industrial Electronics 2
Heat Engines/ Thermodynamics Module 1 to 5	N5 Power Machines N6	Thermodynamics 3.
Drawings Module 1	N 3 Engineering Drawings	Drawing 1
Applied Marine Science Module 1 and 3	N4 Mathematics ✓	Mathematics 1
Electrotechnology Module 1 to 3	N4 Electro technics ✓ N5 Electro technics N6 N3 Industrial Electronics	Electrotechnology 1 Electrotechnology 2 ELT 3 X
Naval Architecture Module 1 to 6, 7, 8, 11 and 12	S subject required	Naval Architecture 1 Naval Architecture 2 3X
Business Module 1 to 4 and 6 to 7	S subject required	Legal Knowledge 1(A and B) or Marine Law 2
Engineering Knowledge Module 1 to 3	S subject required	Marine Engineering Knowledge 1 and 2 Marine Engineering Knowledge 3 (A) ✓

Note:

1. At CPUT the content of the course Marine Engineering Knowledge 3 has been divided into 4 subjects, namely:
 - a. Marine Engineering Knowledge (motor)
 - b. Marine Engineering Knowledge (general)
 - c. Internal Combustion Engines 3
 - d. Steamplant 3
2. At DUT the Marine Engineering Knowledge 3 course includes all four of the above subjects.

Version no. - Effective Date	Document	Reference
Ver. 2.0 – 01/01/2017	The SAMSA Code – Matrix	GOP 530.03